Seminar outline

Integrated Strategic Planning is now regarded as best practice in the mining industry. The 2 – day Seminar comprehensively explains the philosophy and methodology behind Whittle Integrated Strategic Planning. It includes an explanation of the processes involved and the benefits derived from developing a Whittle Enterprise Optimisation model.

The seminar explains the 10 distinct Steps in a Whittle Enterprise Optimisation model including: pit/underground, phases, mine schedule, cut-off, blend, stockpiles, processing, product mix and specification, logistics and capital. When applied simultaneously these mechanisms produce extraordinary results. Important new techniques and concepts for the mining industry are also explored. These theories include Activity Based Costing (ABC) and Theory of Constraints (TOC). The end result is a powerful analytical approach to decision making across all aspects of a mining operation or project.

The 15 most common reasons for undertaking Whittle Integrated Strategic Planning

Whittle Integrated Strategic Planning is frequently undertaken to:

1. Improve cash flow
2. Increase Net Present Value (NPV)
3. Support Pre-feasibility Studies (PFS) or Feasibility Studies (FS)
4. Guide investment decisions
5. Raise finance
6. Achieve sustainable operations
7. Respond to market and contextual changes
8. Perform Due Diligence (DD) and/or validate current plans
9. Design management processes and systems
10. Focus Big Data
11. Identify bottlenecks and leverage points
12. Embrace complexity
13. Enable Business Improvement (BI)
14. Rescue distressed assets
15. Harness innovation

"A unique approach to optimising project value and cash flow returns...this is well worth attendance & highly recommended." John Meyer, SP Angel, London.

Seminar participants

The seminar is frequently attended by senior mining executives, geologists, mining engineers, process engineers, metallurgists, logistics managers, department, divisional and project managers, institutional mining fund investors, financial analysts and project financiers.

Ideally senior managers across all business disciplines from the one company should attend together, as the seminar presents the benefits of cross-functional collaboration. Attendance is often the final step in deciding whether to embark an Enterprise Optimisation study, or the first step in doing it. In house seminars can be arranged upon request.

Seminar facilitator - Gerald Whittle, CEO, Whittle Consulting

As the CEO of Whittle Consulting, Gerald has worked in the mining industry for the past 20 years. A recognised thought leader on mining optimisation, Gerald has presented the Integrated Strategic Planning seminar to over 3,000 delegates worldwide. A qualified accountant and an experienced CFO, he has over 35 years in business planning, analysis and change management.

Who are Whittle Consulting?

Whittle Consulting are the leaders in the field of Integrated Strategic Planning. Since 1999, Whittle Consulting has conducted over 150 Whittle Enterprise Optimisation studies for mining companies worldwide. These studies have repeatedly improved the economics of a mining project or operation from 5%-35%, and in many cases substantially more. These results are achieved even after conventional mining optimisation techniques have already been applied.
Effective long term planning can enhance the value of a minerals business from 5%-35%, and often substantially more.

**Seminar Outline Day One**

1. **INTRODUCTION**
   - Introductions/Objectives/Participation/Workbooks
   - Creating Value
   - What is Optimisation?
   - Integrated Strategic Planning

2. **OPTIMISATION STEPS 1 – 6**
   - Open Pit Case Study: Introduction
     1. Base Case life of mine plan
     2. Pit optimisation: Lerchs-Grossman
     3. Phase/pushback selection
     4. Cut-off grade: Ken Lane
     5. Blending
     6. Stockpiles

3. **OPTIMISATION STEPS 7 – 10**
   - Process plant calibration (grind/throughput/recovery)
   - Product specification
   - Logistics
   - Capital scaling implications

4. **UNDERGROUND CASE STUDY**
   - Grade tonnage curves
   - Stope design criteria
   - Mine scheduling
   - Variable cut-off strategies
   - Maximising value

**2019 Seminar Dates**

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<thead>
<tr>
<th>Location</th>
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<tbody>
<tr>
<td>Perth, Australia</td>
<td>10 - 11 June</td>
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<tr>
<td>Brisbane, Australia</td>
<td>5 - 6 August</td>
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<td>Vancouver, Canada</td>
<td>13 - 14 August</td>
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<td>Perth, Australia</td>
<td>11 - 12 September</td>
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<td>Johannesburg, South Africa</td>
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<td>Moscow, Russia</td>
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<td>Jakarta, Indonesia</td>
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<td>Vancouver, Canada</td>
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<td>Toronto, Canada</td>
<td>11 - 12 November</td>
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<td>Montreal, Canada</td>
<td>14 - 15 November</td>
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**Seminar Outline Day Two**

**RECAP DAY 1**

5. **ACTIVITY BASED COSTING (ABC)**
   - Types of cost accounting
   - Traditional fixed/variable/capital costs
   - Activity Based Costing
   - Identifying attributable, period, capital costs
   - Frontline, support, backline activities
   - Examples

6. **THEORY OF CONSTRAINTS (TOC)**
   - The production line, impact of bottlenecks
   - Theory of Constraints (TOC): Eli Goldratt
   - Mining case study
   - Recommendation 1: Defining constraints
   - Recommendation 2: Treatment of period costs
   - Recommendation 3: Grade control methodology/Grade Bins

7. **SUSTAINABILITY**
   - The “Five Capitals” – Sustainable Development Balance Sheet
   - SUSOP – Sustainable Operations
   - Integrating EOSUSOP

8. **RISK & UNCERTAINTY**
   - Sources of uncertainty
   - Modelling uncertainty
   - Measuring the impact of uncertainty
   - Monte Carlo and Optimisation
   - Real Options
   - Hedging

9. **IMPLEMENTATION & CONCLUSION**
   - Technical barriers – data, software
   - Organisational/human barriers — “It’s a Minefield”
   - Strategic to Tactical operational considerations
   - The ideal planning process – when and how?
   - Where to next?

**Seminar Registration**

Seminar registration information available at www.whittleconsulting.com.au/seminar

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**Seminar Partners**